

## CLAIMS

1. A recording/playback apparatus for recording or playing back a video data file to/from a recording medium, comprising:
  - a recording unit operable to record a video data file, an  
5 additional data file related to the video data file, and management information which includes recording resume information indicating a last recorded file; and
  - a controlling unit operable to control the recording unit to record the recording resume information indicating the video data  
10 file which was most recently recorded as the last recorded file, into the management information when the video data file and the additional data file are recorded by the recording unit.
2. The recording/playback apparatus according to Claim 1,  
15 wherein the recording resume information includes file identifying information indicating the video data file that was most recently recorded.
3. The recording/playback apparatus according to Claim 2,  
20 wherein the additional data file is used for reserving a recording area for a post recording, and  
the recording unit records the video data file and the additional data file in an interleaved manner.
- 25 4. The recording/playback apparatus according to Claim 3, wherein the recording unit further records an attribute information file which indicates an attribute of the video data file into a predetermined area.
- 30 5. The recording/playback apparatus according to Claim 3, wherein immediately before a new video data file and a new additional data file are recorded, the controlling unit further

obtains a last recording position of the last recorded file on the basis of the recording resume information, searches for a space area unidirectionally from the last recording position, and determines a start of the space area as a recording start position,  
5 and

the recording unit records the new video data file and the new additional data file from the determined recording start position.

10 6. The recording/playback apparatus according to Claim 5, wherein the management information further includes a loop recording flag indicating whether or not the last recorded file was recorded by a loop recording, and

15 the controlling unit controls a setting of the loop recording flag.

7. The recording/playback apparatus according to Claim 5, wherein the management information further includes a valid flag indicating whether or not the file identifying information  
20 is valid, and

the controlling unit controls an update of the valid flag.

8. The recording/playback apparatus according to Claim 5, wherein the management information further includes entry  
25 information indicating a group to which the last recorded video data file belongs, and

the controlling unit controls a setting of the entry information.

30 9. The recording/playback apparatus according to Claim 8, wherein the management information further includes a valid flag indicating whether or not the entry information is valid,

and

the controlling unit controls a setting of the valid flag.

10. The recording/playback apparatus according to Claim 5,  
5 wherein the management information further includes date and time information indicating a recording date and time when the last recorded video data file was recorded, and

the controlling unit controls a setting of the date and time information.

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11. The recording/playback apparatus according to Claim 10,  
wherein the management information further includes a valid flag indicating whether or not the date and time information is valid, and

15 the controlling unit controls a setting of the valid flag.

12. The recording/playback apparatus according to Claim 1,  
wherein the recording resume information includes position information indicating a last recording position of the last recorded  
20 video data file on the recording medium.

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13. The recording/playback apparatus according to Claim 1,  
wherein the recording resume information includes identifying information indicating a group to which the last  
25 recorded video data file belongs.

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14. The recording/playback apparatus according to Claim 1,  
wherein the controlling unit assigns a unique ID to each of the video data file and the additional data file, and

30 the recording resume information includes a unique ID of the last recorded video data file.

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15. The recording/playback apparatus according to Claim 1,  
wherein before a recording of a new video data file and a  
new additional data file to the recording medium is started, the  
controlling unit determines a classification group and a recording  
start position for each of the new video data file and the new  
additional data file.

16. The recording/playback apparatus according to Claim 15,  
wherein immediately before a new video data file and a new  
additional data file are recorded, the controlling unit further  
obtains a last recording position of the last recorded file on the  
basis of the recording resume information, searches for a space  
area unidirectionally from the last recording position, and  
determines a start of the space area as a recording start position,  
and

the recording unit records the new video data file and the  
new additional data file from the determined recording start  
position.

17. A recording/playback method of recording or playing back a  
video data file to/from a recording medium, comprising:

a first recording step of recording a video data file and an  
additional data file related to the video data file to the recording  
medium; and

a second recording step of recording management  
information, which includes recording resume information  
indicating the video data file which was most recently recorded as  
a last recorded file, to the recording medium when the recording of  
the video data file and the additional data file in the first recording  
step is completed.

18. A program causing a computer to execute a recording or a

playback of a video data file to/from a recording medium, the program causing the computer to execute:

a first recording step of recording a video data file and an additional data file related to the video data file to the recording medium; and

a second recording step of recording management information, which includes recording resume information indicating the video data file which was most recently recorded as a last recorded file, to the recording medium when the recording of the video data file and the additional data file in the first recording step is completed.

19. A recording medium which is capable of a recording and a playback performed by a computer, recording

a video data file, an additional data file related to the video data file, and management information,

wherein the video data file and the additional data file are recorded in an interleaved manner, and

the management information includes recording resume information indicating a last recorded video data file.